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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,149	10/20/2003	Miri Seiberg	3282-P02872US04	6375
110 27590 6012120909 DANN, DORFMAN, HERRELL & SKILLMAN 1601 MARKET STREET SUITE 2400 PHILADELPHIA, PA 19103-2307			EXAMINER	
			PACKARD, BENJAMIN J	
			ART UNIT	PAPER NUMBER
			1612	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/689,149 SEIBERG ET AL. Office Action Summary Examiner Art Unit Benjamin Packard 1612 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 October 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) 5-8,10-12,14-16,21-28 and 30-32 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4,9,13,17-20,29 and 33 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date See Continuation Sheet.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :2pgs (5/1/08), 1pg (10/24/08). 2pgs(12/3/08).

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DETAILED ACTION

Applicants' arguments, filed 10/24/08, have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 112 - New Matter

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 33 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

While the specification appears to have support for a "non-denatured soybean trypsin inhibitor", does not appear to have support for non-denatured, "Kunitz-type" soybean trypsin inhibitors.

Claim Rejections - 35 USC § 112 - Written Description

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

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art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 33 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The description requirement of the patent statute requires a description of an invention, not an indication of a result that one might achieve if one made that invention. See, e.g., In re Wilder, 22 USPQ 369, 372-3 (Fed. Cir. 1984). (Holding that a claim was not adequately described because the specification did 'little more than outline goals appellants hope the claimed invention achieves and the problems the invention will hopefully ameliorate.')

Mere indistinct terms (such as "non-denatured, Kunitz-type soybean trypsin inhibitors" used herein), however, may not suffice to meet the written description requirement. This is particularly true when a compound is claimed in purely functional terms. See <u>Univ. of Rochester v. G.D. Searle</u>, 69 USPQ2d 1886 (CAFC 2004) at 1892, stating:

The appearance of mere indistinct words in a specification or a claim, even an original claim, does not necessarily satisfy that requirement. A description of an anti-inflammatory steroid, i.e., a steroid (a generic structural term) described even in terms of its functioning of lessening inflammation of tissues fails to distinguish any steroid from others having the same activity or function. A description of what a material does, rather than of what it is, usually does not suffice.... The disclosure must allow one skilled in the art to <u>visualize or recognize</u> the identity of the subject matter purportedly described. (Emphasis added).

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Conversely, a description of a chemical genus will usually comprise a recitation of structural features common to the members of the genus, which features constitute a substantial portion of the genus. See <u>Univ. of Calf. V. Eli Lilly</u>, 43 USPQ 2d 1398, 1406 (Fed. Cir. 1997). This is analogous to enablement of a genus under Section 112, ¶ 1, by showing the enablement of a representative number of species within the genus.

A chemical genus can be adequately described if the disclosure presents a sufficient number of representative species that encompass the genus. If the genus has substantial variance, the disclosure must describe a sufficient number of species to reflect the variation within that genus. See MPEP 2163. The MPEP lists factors that can be used to determine if sufficient evidence of possession has been furnished in the disclosure of the Application. These include the level of skill and knowledge in the art, partial structure, physical and/or chemical properties, functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the method of making the claimed invention. Disclosure of any combination of such identifying characteristics that distinguish the claimed invention from other materials and would lead one of skill in the art to the conclusion that the applicant was in possession of the claimed species is sufficient. MPEP 2163.

Here, the specification does not provide a reasonably representative disclosure of useful non-denatured, Kunitz-type soybean trypsin inhibitors, a potentially huge genus inclusive of many different compounds having widely divergent structures and functions. Specifically, the specification does not discloses any species with does not provide a readily apparent combination of identifying characteristics.

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Claim Rejections - 35 USC § 102

Claims 1-4, 13, and 17-20 were rejected under 35 U.S.C. 102(b) as being anticipated by Novogen Res. Pty. Ltd (WO 99/36050 ('050), see Applicants IDS dated 7/12/04 sheet 12).

This rejection is maintained.

Applicants assert the extraction of '050 are prepared according to WO 03/23069 ('069) which teaches the use of heat to prepare the extracts and there is no motivation to exclude heat.

Examiner first points to the disclosure of '050, which specifically teaches the method of extraction using a mixture of organic solvents and water. There is no mention of the application of heat in the specifically disclosed method.

Turning to '069 as Applicants suggest, Examiner finds Applicants mischaracterized the disclosure where in Example 1, the first step of drying the raw plant may be accomplished either by sun-drying or from applied heat. While applied heat may denature the product as Applicants assert, it is unclear if sun drying has the same effect, given the only direction with regards to the component is that "denaturation" results from "heat, X-rays or chemicals" (instant spec pg 7 at lines 220-223). Then when the material is exposed to the solvent mix, the exposure time is indirectly proportional to the temperature, where the temperature may be from ambient temperature to boiling temperature. Using the ambient temperature as the temperature does not lead to application of heat.

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Claim Rejections - 35 USC § 103

Claims 9 and 29 were rejected under 35 U.S.C. 103(a) as being unpatentable over Novogen Res. Pty. Ltd as applied above (WO 99/36050, see Applicants IDS dated 7/12/04 sheet 12).

This rejection is maintained.

Applicants again assert '050 does not teach the use of non-denatured soy product.

See discussion above with respect the soy product disclosed in '050.

Claims 1-4, 9, 13, 17-20, 29, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shapiro et al (WO 99/04752) in view of Kunitz (J. Gen. Physiol. 29 (1946) 149-154).

Shapiro et al teaches using a human epidermal model which included the application of soybean trypsin inhibitor from Sigma (pg 21-25 Example 1, esp pg 24 lines 20-30 and Table A).

Shaprio et al does not specifically teach non-denatured Kunitz-type as the preferred soybean trypsin inhibitor.

Kunitz teaches a method of extracting non-denatured trypsin inhibitor crystals (see document generally).

Where Shapiro et all discloses the use of soybean trypsin inhibitor generally, it would be obvious to select from known methods of extraction to access soybean trypsin

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inhibitor, such as taught by Kunitz. Further, the instant claims are simply directed to a method of reducing the risk of cutaneous tumor development, therefore any application to skin not yet damaged by ultraviolet radiation appears to read on the instant claims.

Conclusion

No claims allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Packard whose telephone number is 571-270-3440. The examiner can normally be reached on M-R 8-5 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached on 571-272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin Packard/ Examiner, Art Unit 1612

/Frederick Krass/ Supervisory Patent Examiner, Art Unit 1612